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### NOTICE OF ALLOWANCE AND FEE(S) DUE

27569 7590

PAUL AND PAUL 2000 MARKET STREET **SUITE 2900** PHILADELPHIA PA 19103 08/24/2009

EXAMINER WINSTON, RANDALL O PAPER NUMBER ARTHNIT

1655

DATE MAILED: 08/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,240	05/13/2002	Jorg Peter Schur	2006-503/VON KREIS	1893
TITLE OF INVENTION, V	ETHOD FOR DISINEEOT	NC THE AID	018	

APPLN, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV, PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional YES \$755 \$755 11/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir ad below or directed oth	or transmitting the ISS of the Patent, advance of nerwise in Block 1, by (	UE FEE and PUBLICAT orders and notification of r (a) specifying a new corres	ION FEE (if requir maintenance fees wi spondence address;	red). Ble ill be m and/or (	ocks 1 through 5 sh ailed to the current b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
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PHILADELPHIA	A, PA 19103						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/019,240	05/13/2002		Jorg Peter Schur		2006-503/VON KREIS 1893		
TITLE OF INVENTION	METHOD FOR DISIN	FECTING THE AIR				018	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0		\$755	11/24/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
WINSTON, R	ANDALL O	1655	424-045000	•			
Change of corresponde CFR 1.363).	nce address or indicatio	n of "Fee Address" (37	2. For printing on the patent front page, list				
	ondence address (or Cha 1/122) attached.	nge of Correspondence	(1) the names of up to 3 registered patent attorneys cragents OR, alternatively.  (2) the name of a single firm (having as a member a 2 registered attorney or agent) and the names of up to				
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
			THE PATENT (print or typ				
PLEASE NOTE: Uni- recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Com	ified below, no assignee pletion of this form is NO	data will appear on the p or a substitute for filing an	atent. If an assigne assignment.	e is ide	ntified below, the do	cument has been filed for
(A) NAME OF ASSIG		and of this form is a con-	(B) RESIDENCE: (CITY				
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Please check the appropri	ate assignee category or	categories (will not be p	rinted on the patent):	Individual	rporatio	or other private gro	up entity Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	ise first reapply any	y previo	ously paid issue fee s	hown above)
☐ Issue Fee ☐ Publication Fee (N	o small entity discount r	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Stat	us (from status indicate	d above)	отеграумен, ю эер	on recommendance		(cherose th	cana copy of any form).
a. Applicant claims	SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lon				
NOTE: The Issue Fee and interest as shown by the r	f Publication Fee (if requeords of the United Sta	uired) will not be accepte tes Patent and Trademar	ed from anyone other than t k Office.	he applicant; a regis	tered att	orney or agent; or th	e assignee or other party in
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an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450.	ER 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or a 1.1.4. This collection is est y depending upon the indiv the Chief Information Office COMPLETED FORMS To	retain a benefit by the timated to take 12 m ridual case. Any con- er, U.S. Patent and T D THIS ADDRESS.	ne public ninutes t nments fradema . SEND	which is to file (and o complete, including on the amount of tin rk Office, U.S. Depa TO: Commissioner f	by the USP1O to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,240	0	5/13/2002	Jorg Peter Schur	2006-503/VON KREIS 1893	
27569	7590	08/24/2009		EXAMINER	
PAUL AND PAUL 2000 MARKET STREET SUITE 2900 PHILADELPHIA, PA 19103			WINSTON, RANDALL O		
			ART UNIT	PAPER NUMBER	
				1655 DATE MAILED: 08/24/2009	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 404 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 404 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
10/019,240	SCHUR, JORG PETER				
Examiner	Art Unit				
Randall Winston	1655				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

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- 1. This communication is responsive to the communication filed on 08/05/2008.
- 2. The allowed claim(s) is/are 32-52.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) ☐ Some\* c) ☐ None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

# Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date 1205
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

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## DETAILED ACTION

## EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of issue of fee.

Authorization for this amendment was given by Johns S. Child on June 3, 2009.

# IN THE CLAIMS

Claims 1-6, 8-13, 15-19 and 22-31 submitted on 08/05/2008 have been canceled.

The following new claims, claims 32-52, have been added:

- -

- 32. A method for the disinfection of air, comprising the distributing or atomizing of an antimicrobial composition, wherein a concentration of the antimicrobial composition of from 0.001 to 1 ml per m³ of air is adjusted by said distributing or atomizing of said antimicrobial composition, and/or exchanging air systems are adjusted to achieve a dosage of from 0.001 to 1 ml per m³ of air per hour, and/or a permanent concentration of from 5 to 10 ppb of the antimicrobial composition is achieved, wherein said antimicrobial composition is free from ethanol and isopropanol and comprises
  - (a) at least 75% by weight of propylene glycol; and
  - (b) 0.01 to 25% by weight of tannic acid.

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33. The method according to claim 32, wherein said antimicrobial composition further

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comprises benzyl alcohol.

34. The method according to claim 33, wherein said antimicrobial composition

comprises from 0.1 to 10% by weight benzyl alcohol.

35. The method according to claim 32, wherein the antimicrobial composition further

comprises lactic acid.

36. The method according to claim 33, wherein said antimicrobial composition

comprises form 0.1 to 10% by weight of benzyl alcohol and from 90 to 99.9% by weight

of propylene glycol.

37. The method according to claim 32, wherein said antimicrobial composition further

comprises GRAS flavoring agents selected from (c) phenols, (d) esters, (e) terpenes, (f)

acetals, (q) aldehydes, and (h) essential oils.

38. The method according to claim 37, wherein said antimicrobial composition

contains from 0.001 to 25% by weight of said additional GRAS flavoring agents (c) to

(h).

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- The method according to claim 37, wherein said additional GRAS flavoring agents are phenols (c) and/or essential oils (h).
- 40. The method according to claim 32, wherein said antimicrobial composition does not contain any derivatives of said GRAS flavoring agents.
- 41. The method according to claim 33, wherein said antimicrobial composition comprises from 0.1 to 20% by weight of benzyl alcohol and from 0.01 to 10% by weight of tannic acid.
- 42. The method according to claim 36, wherein the antimicrobial composition further comprises water and water content of said antimicrobial composition is less than 35 % by weight.
- The method according to claim 32, wherein said composition further comprises emulsifiers, stabilizers, antioxidants, preservatives, solvents, and/or carrier materials.
- 44. The method according to claim 32, wherein said atomizing of said antimicrobial composition effected by a two-fluid nozzle system, evaporation system or a bubbler installation for the air, or in a special design for packaging.

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45. The method according to claim 32, wherein the concentration of said antimicrobial composition from 0.01 to 0.1 ml per m³ of air is adjusted by said distributing or atomizing of said antimicrobial composition, and/or exchanging air systems are adjusted to achieve a dosage of from 0.01 to 0.1 ml per m³ of air per hour.

- 46. A method for the disinfection of air to reduce the concentration of germs selected from the group consisting of at least one of gram-positive bacteria, gram-negative bacteria, molds, spore-formers and viruses, said method comprising the distributing or atomizing of an antimicrobial composition, wherein a concentration of the antimicrobial composition of from 0.001 to 1 ml per m³ of air is adjusted by said distributing or atomizing of said antimicrobial composition, and/or exchanging air systems are adjusted to achieve a dosage of from 0.001 to 1 ml per m³ of air per hour, and/or a permanent concentration of from 5 to 10 ppb of the antimicrobial composition is achieved, wherein said antimicrobial composition is free from ethanol and isopropanol and comprises
  - (a) at least 75% by weight of propylene glycol; and
  - (b) 0.01 to 25% by weight of tannic acid.
- 47. A method for the disinfection of air to reduce the concentration of germs selected from the group consisting of at least one of *bactillus subtilis*, *pseudomona fluorescens*, *staphylococcus aureus*, *aspergillus niger* and *hepatitis B*, said method comprising the distributing or atomizing of an antimicrobial composition, wherein a concentration of the antimicrobial composition of from 0.001 to 1 ml per m³ of air is adjusted by said

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distributing or atomizing of said antimicrobial composition, and/or exchanging air systems are adjusted to achieve a dosage of from 0.001 to 1 ml per m³ of air per hour, and/or a permanent concentration of from 5 to 10 ppb of the antimicrobial composition is achieved, wherein said antimicrobial composition is free from ethanol and isopropanol and comprises

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- (a) at least 75% by weight of propylene glycol; and
- (b) 0.01 to 25% by weight of tannic acid.
- 48. A method for the disinfection of air to reduce the concentration of *bacillus* anthracis, said method comprising the distributing or atomizing of an antimicrobial composition, wherein a concentration of the antimicrobial composition of from 0.001 to 1 ml per m³ of air is adjusted by said distributing or atomizing of said antimicrobial composition, and/or exchanging air systems are adjusted to achieve a dosage of from 0.001 to 1 ml per m³ of air per hour, and/or a permanent concentration of from 5 to 10 ppb of the antimicrobial composition is achieved, wherein said antimicrobial composition is free from ethanol and isopropanol and comprises
  - (a) at least 75% by weight of propylene glycol; and
  - (b) 0.01 to 25% by weight of tannic acid.
- The method according to claim 47, wherein said antimicrobial composition further comprises benzyl alcohol.

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50. The method according to claim 49, wherein the alcohol constituent of said

antimicrobial composition comprises from 1% to 10% by weight of benzyl alcohol.

51. The method according to claim 47, wherein said antimicrobial composition further

comprises lactic acid.

52. The method according to claim 46, wherein said antimicrobial composition further

comprises lactic acid.

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Claims 32-52 are allowed.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Randall Winston whose telephone number is 571-272-

0972. The examiner can normally be reached on 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RW

/Christopher R. Tate/ Primary Examiner, Art Unit 1655